QB
6
P45

YF02496

UC-NRLF
$C 34 405

PERTH CATALOGUE
OF
STANDARD STARS.
31° & 41° S. 1905·0.

LIBRARY
OF THE
UNIVERSITY
OF
CALIFORNIA

ASTRONOMY LIBRARY

1907.

WESTERN AUSTRALIA.

— A —

CATALOGUE

OF

420 STANDARD STARS,

MOSTLY BETWEEN 31° & 41° SOUTH DECLINATION,

FOR THE EQUINOX

1905·0,

FROM OBSERVATIONS MADE AT THE

PERTH OBSERVATORY,

WESTERN AUSTRALIA,

UNDER THE DIRECTION OF

W. ERNEST COOKE, M.A., F.R.A.S.,

GOVERNMENT ASTRONOMER OF WESTERN AUSTRALIA.

PERTH:

BY AUTHORITY; FRED. WM. SIMPSON, GOVERNMENT PRINTER.

1907.

Cat. for
ASTRONOMY LIBRARY
add to lib

QB6
P45
ASTRONOMY
LIBRARY

PERTH

GENERAL CATALOGUE OF STARS

FOR

1905·0.

INTRODUCTION.

To the Perth Observatory, as one of the co-operating Observatories of the International Photo-Durchmusterung, have been assigned the zones 32°—40°. Owing to the absence of suitable well-determined positions which might be used as standards in the plate reductions, it has been found necessary to select some 10 or 12 stars in each plate area and observe these with the transit circle. A list has been prepared containing three stars per square degree, wherever practicable, and observations of these were commenced on 1901, October 6, with the six-inch Troughton and Simms Transit Circle.

At first the clock error was determined from the equatorial and zenith stars of the Nautical Almanac, and the nadir point from reflections of the middle thread over mercury. This method was eventually discarded as unsatisfactory, for several reasons, and it was determined to use Auwer's " Fundamental Catalog für Zonenbeobachtungen am Südhimmel " as the basis of reduction. Since, however, there was not a sufficient number of fundamental stars between 31° and 41°, the stars of the present catalogue were selected, to be used as secondary standards. It was resolved to set aside at least a year in order to obtain 10 good observations of each of these stars. The list has been constructed so that there are three or four stars per hour for each 2°, and also so that there are generally four of Auwer's Fundamentals per hour in the whole 10°. In a few instances it was found necessary to extend the limits in order to obtain the requisite number of Fundamentals. Instrumental constants (level, azimuth, mire, and nadir point) were taken before and after each two hours' catalogue work. The clock error and equator point were determined from the Fundamentals, of which from 6 to 10 have generally been taken. The nadir point observations have been used only as a check upon the steadiness of the instrument, and occasionally it was found necessary to consider the equator point as a function of the time.

This catalogue will be used in the reduction of the stars of the larger one in the same manner as Auwer's Fundamental Catalog has been used in the preparation of the

M777436

present one. That is, the stars will be observed in zones of 2°, probably two hours at a sitting. Each evening's observations will include from 6 to 10 of these Secondary Standards, from which the clock error and equator point will be computed.

An attempt will also be made to reduce the observations already taken to the same system, but it is feared that the requisite number of Standards will not always have been taken.

It is the present policy of this Observatory that both this catalogue and the larger one shall be re-observed every 10 or 12 years, taking 10 observations of each of the Standards and three of each star in larger catalogue.

A rough attempt has been made to correct the observations for magnitude equation, and to reduce them to the standard of an 8th magnitude star.

Transits have been taken over 7 vertical wires, and four microscopes have been used in the circle readings. Corrections for runs and errors of division have been applied, but no corrections have been made for proper motion.

In the case of Fundamental Stars two quantities are given, those marked A being taken from Auwer's Catalog. It should be remembered that these are reduced to the fourth magnitude.

A few alterations in the working list were made during the year, and therefore the numbers are not quite regularly consecutive. It has been thought advisable to retain the same numbers as occur in the star ledgers.

The magnitudes are taken either from Auwer's Catalog or the C.P.D., but in a few instances have been altered where the figure given in the C.P.D. was obviously inappropriate. They are not intended to be photometrically accurate.

The remarks are intended to help identify the star. The letters p. and f. (preceding and following), when in small type, refer to spaces of the order of 10 or 15 seconds of time, or less, but when printed in large type to spaces of the order of one minute of time.

The observers were Messrs. W. E. Cooke, H. M. Joscelyne, and H. B. Curlewis.

The work of reducing the observations and preparing the catalogue was performed by the latter officer, assisted by Mr. C. Nossiter.

The probable errors of a single observation, deduced from the first hundred stars, are $\pm 0^s.033$ and $\pm 0''.30$.

PERTH CATALOGUE, 1905·0.

No.	Mag.	Mean Date. 1900+	No. of Obs.	Mean R.A. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Mean Date. 1900+	No. of Obs.	Mean Declination. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Remarks.
				h. m. s.	s.	s.	s.			° ′ ″	″	″	″	
1	7·6	5·98	10	0 2 17·137	+ 3·0645	— ·016	...	5·97	11	31 5 26·51	+ 20·045	— ·01	...	...
1a	9·0	6·06	11	0 4 18·855	+ 3·0522	— ·022	...	6·05	12	38 49 0·67	+ 20·042	— ·02	...	...
2	5–6	6·04	13	0 6 54·260	+ 3·0436	— ·019	+·0100	6·03	14	35 39 53·69	+ 20·037	— ·02	+ ·119	...
A	...	...	...	·265	...	...	...	...	...	·95	...	...	...	...
3	7·8	5·88	11	0 10 5·485	+ 3·0348	— ·016	...	5·88	12	32 40 48·40	+ 20·026	— ·03	...	...
4	8·0	5·98	10	0 14 8·139	+ 3·0173	— ·017	...	5·98	10	33 51 8·60	+ 20·008	— ·04	...	...
5	8·2	5·88	11	0 16 46·984	+ 3·0048	— ·017	...	5·88	11	34 41 46·92	+ 19·992	— ·04	...	...
6	8·0	6·43	9	0 19 35·807	+ 2·9891	— ·017	...	6·43	9	36 9 59·25	+ 19·973	— ·05	...	nF
7	2–3	6·17	16	0 21 35·369	+ 2·9561	— ·022	+·0165	6·16	18	42 49 19·76	+ 19·957	— ·05	— ·414	...
A	...	...	...	·352	...	...	...	...	...	·15	...	...	...	...
8	5–4	6·03	14	0 26 50·096	+ 2·8908	— ·027	+·0120	6·03	14	49 19 43·77	+ 19·909	— ·06	+ ·007	...
A	...	...	...	·073	...	...	...	...	...	44·20	...	...	...	...
9	8·0	5·98	11	0 30 56·615	+ 2·9201	— ·019	...	5·97	13	40 15 55·25	+ 19·864	— ·07	...	...
10	8·5	5·90	9	0 34 13·334	+ 2·9228	— ·016	...	5·90	10	36 58 43·65	+ 19·823	— ·07	...	...
10a	9·0	6·06	10	0 36 17·603	+ 2·9342	— ·014	...	6·05	12	33 16 21·69	+ 19·795	— ·07	...	...
11	6·0	6·16	18	0 39 36·527	+ 2·8868	— ·017	+·0175	6·14	20	38 56 41·82	+ 19·748	— ·08	+ ·109	...
A	...	...	...	·513	...	...	...	...	...	42·43	...	...	...	...
12	8·5	6·15	11	0 43 15·205	+ 2·8646	— ·017	...	6·14	12	39 40 29·72	+ 19·690	— ·09	...	...
13	8·5	6·35	9	0 47 0·332	+ 2·9057	— ·011	...	6·35	9	31 30 8·71	+ 19·626	— ·10	...	sp
14	7·8	5·90	10	0 49 29·884	+ 2·8876	— ·011	...	5·90	10	32 51 0·93	+ 19·580	— ·10	...	...
15	9·0	6·38	10	0 54 6·550	+ 2·8542	— ·012	...	6·33	11	34 56 13·55	+ 19·490	— ·11	...	...
16	8·0	5·90	11	0 56 51·493	+ 2·8523	— ·012	...	5·90	12	33 52 18·78	+ 19·432	— ·11	...	...
17	8·0	5·90	11	0 59 31·307	+ 2·8306	— ·012	...	5·90	12	35 11 12·10	+ 19·374	— ·11	...	...
17a	7·5	6·12	10	1 1 50·040	+ 2·8202	— ·012	...	6·12	10	35 18 22·21	+ 19·321	— ·11	...	...
18	8·5	5·92	10	1 4 43·389	+ 2·7954	— ·013	...	5·92	11	36 38 52·96	+ 19·252	— ·12	...	...
19	6·0	6·17	15	1 8 22·844	+ 2·7616	— ·012	+·0036	6·16	16	38 21 36·03	+ 19·160	— ·13	— ·032	...
A	...	...	...	·792	...	...	...	...	...	35·52	...	...	...	...
20	7·5	6·00	12	1 13 1·325	+ 2·7482	— ·012	...	5·99	13	37 46 15·25	+ 19·037	— ·13	...	...
20a	8·6	5·92	10	1 15 19·147	+ 2·7792	— ·010	...	5·92	11	34 13 12·23	+ 18·973	— ·14	...	...
21	6·0	6·22	16	1 19 5·690	+ 2·7961	— ·008	—·0050	6·20	17	31 26 26·56	+ 18·864	— ·15	— ·070	...
A	...	...	...	·675	...	...	...	...	...	·53	...	...	...	...
22	8·0	6·28	11	1 23 27·191	+ 2·6783	— ·011	...	6·25	10	39 38 3·83	+ 18·732	— ·14	...	...
23	8·4	6·32	10	1 27 38·100	+ 2·7374	— ·008	...	6·32	10	33 54 19·15	+ 18·598	— ·16	...	...
24	8·3	6·31	10	1 29 29·709	+ 2·6396	— ·010	...	6·31	10	40 23 53·76	+ 18·537	— ·15	...	...
25	7·6	5·94	10	1 34 19·219	+ 2·7300	— ·007	...	5·94	10	32 39 7·20	+ 18·372	— ·17	...	...
26	6·0	6·14	14	1 37 51·695	+ 2·6507	— ·008	—·0060	6·14	14	37 18 41·33	+ 18·246	— ·17	— ·028	...
A	...	...	...	·693	...	...	...	...	...	·12	...	...	...	...
27	6·8	6·02	13	1 40 22·548	+ 2·6772	— ·007	...	6·02	13	34 53 58·20	+ 18·154	— ·17	...	...
27a	8·5	5·95	9	1 42 36·090	+ 2·5799	— ·008	...	5·95	10	40 25 8·99	+ 18·070	— ·17	...	...
28	8·5	5·95	11	1 45 48·035	+ 2·6399	— ·007	...	5·95	11	36 0 34·29	+ 17·948	— ·18	...	f
29	5·0	5·95	12	1 49 50·223	+ 2·4171	— ·009	— ·0097	5·95	12	46 46 3·63	+ 17·788	— ·17	— ·106	...
A	...	...	...	·271	...	...	...	...	...	4·52	...	...	...	...
30	8·5	6·12	11	1 53 47·339	+ 2·6172	— ·006	...	6·12	11	35 34 23·40	+ 17·626	— ·19	...	...
31	8·3	5·95	11	1 57 51·066	+ 2·5354	— ·006	...	5·95	10	39 15 17·00	+ 17·454	— ·19	...	...
32	7·5	5·96	11	2 2 16·845	+ 2·5024	— ·006	...	5·96	11	39 59 30·38	+ 17·260	— ·19	...	...
33	8·8	5·96	9	2 5 31·890	+ 2·5238	— ·005	...	5·96	10	38 15 7·51	+ 17·113	— ·20	...	...
34	5·5	6·10	13	2 8 43·449	+ 2·6420	— ·003	— ·0007	6·10	13	31 10 9·61	+ 16·967	— ·21	— ·011	...
A	...	...	...	·439	...	...	...	...	...	·79	...	...	...	...
35	8·0	6·13	11	2 11 25·647	+ 2·5796	— ·004	...	6·13	11	34 12 23·21	+ 16·839	— ·21	...	...
36	8·0	6·13	11	2 15 38·772	+ 2·5962	— ·003	...	6·13	11	32 34 12·73	+ 16·636	— ·22	...	...

PERTH CATALOGUE, 1905·0.

No.	Msg.	Mean Date. 1900+	No. of Obs.	Mean R.A. 1905·0.	Annual Precession 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Mean Date. 1900+	No. of Obs.	Mean Declination. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Remarks.
				h. m. s.	s.	s.	s.			° ′ ″	″	″	″	
37	8·0	5·96	10	2 18 16·423	+ 2·5728	— ·003	...	5 96	10	33 23 6·15	+ 16·507	— ·22	...	...
38	8·3	5·96	10	2 21 50·484	+ 2·4728	— ·004	...	5·96	10	37 43 26·47	+ 16·328	— ·21	...	sf
39	7·5	5·96	10	2 25 25·600	+ 2·4892	— ·003	...	5·96	10	36 21 52·07	+ 16·144	— ·22	...	...
40	6·0	5·96	10	2 29 9·311	+ 2·5042	— ·002	— ·0045	5·96	10	35 4 3·88	+ 15·949	— ·23	— ·036	...
A	...	...	...	·289	...	...	...	...	...	·84	...	...	...	...
41	8·0	5·97	10	2 32 30·811	+ 2·4009	— ·003	...	5·97	10	39 8 36·82	+ 15·769	— ·22	...	...
42	4·0	5·98	11	2 36 55·069	+ 2·3567	— ·002	+ ·0075	5 98	11	40 15 42·08	+ 15·528	— ·22	— ·030	...
A	...	...	...	54·982	...	...	...	...	...	·23	...	...	...	...
42a	7·7	5·98	9	2 39 28·144	+ 2·4839	— ·002	...	5·98	9	34 29 40·40	+ 15·386	— ·24	...	...
43	7·5	5·98	10	2 41 53·304	+ 2·3810	— ·002	...	5·98	10	38 33 53·60	+ 15·250	— ·23	...	...
44	4·5	5·98	10	2 45 6·865	+ 2·5042	000	+ ·0060	5·98	10	32 48 16·69	+ 15·065	— ·25	+ ·155	...
A	...	...	...	·858	...	...	...	...	...	·82	...	...	...	...
45	6·9	5·98	9	2 47 54·851	+ 2·5310	000	...	5·98	9	31 12 27·62	+ 14·902	— ·25	...	...
46	7·1	5·98	10	2 50 55·440	+ 2·4630	— ·001	...	5·98	10	33 54 39·09	+ 14·725	— ·25	...	...
47	3 0	5·99	10	2 54 39·516	+ 2·2793	000	— ·0069	5·99	10	40 41 6·38	+ 14·501	— ·24	+ ·024	...
A	...	...	...	·479	...	...	...	...	...	·28	...	...	...	...
47a	9·0	5·99	10	2 57 50 106	+ 2·3280	000	...	5·99	10	38 30 2·11	+ 14·308	— ·25	...	...
49	8·8	6·00	10	3 4 2·501	+ 2·3704	000	...	6·00	9	36 8 22·50	+ 13·923	— ·25	...	...
50	8·5	6·00	10	3 7 43 158	+ 2·2894	000	...	6·00	10	38 22 38·71	+ 13·689	— ·25	...	...
51	6·5	6·00	10	3 10 55·926	+ 2·3564	+ ·001	+ 0016	6·00	10	35 54 38·49	+ 13·483	— ·26	+ ·025	...
A	...	...	...	·921	...	...	...	...	...	·53	...	...	...	...
52	8·0	6·00	11	3 14 6·298	+ 2·2527	+ ·001	...	6·00	11	39 18 34·25	+ 13·276	— ·25	...	...
53	7·5	6·00	9	3 17 21·490	+ 2·2864	+ ·001	...	6·00	11	37 47 28·58	+ 13·062	— ·26	...	...
54	7·5	6 00	11	3 20 30·871	+ 2·4448	+ ·002	...	6·00	11	31 27 56·55	+ 12·851	— ·27	...	...
55	7·6	6·00	10	3 25 9·073	+ 2·3696	+ ·001	...	6·00	10	33 58 57·58	+ 12·537	— ·27	...	...
56	8·8	6·00	11	3 28 36·731	+ 2·3655	+ ·002	...	6·00	11	33 49 14·62	+ 12·299	— ·27	...	nf
56a	7·0	6·00	10	3 30 49·046	+ 2·3240	+ ·002	...	6·00	10	35 8 54·48	+ 12·146	— ·27	...	sf
57	5·0	6·00	11	3 33 41·044	+ 2·1531	+ ·002	— ·0018	6·00	11	40 35 9·68	+ 11·946	— ·26	— ·027	...
A	...	...	...	·096	...	...	...	...	...	·75	...	...	...	...
58	5·0	6·00	12	3 38 28·192	+ 2·3853	+ ·002	— ·0007	6·00	12	32 14 29·41	+ 11·608	— ·29	+ ·004	...
A	...	...	...	·167	...	...	...	...	...	·94	...	...	...	...
59	8·8	6·01	9	3 41 16·610	+ 2·1925	+ ·002	...	6·01	9	38 41 16·88	+ 11·407	— ·27	...	sf of 3
60	4·0	6·02	11	3 45 53·876	+ 2·2485	+ ·003	— ·0041	6·02	12	36 29 15·74	+ 11·071	— ·28	— ·055	...
A	...	...	...	·937	...	...	...	...	...	·82	...	...	...	...
61	5·2	6·02	10	3 50 1·717	+ 2·2828	+ ·002	...	6·02	11	35 0 46·76	+ 10·768	— ·30	...	...
62	7·5	6·02	9	3 53 5·257	+ 2·1443	+ ·003	...	6·02	10	39 14 13·75	+ 10·542	— ·27	...	...
63	9·0	6·02	9	3 56 16·452	+ 2·1053	+ ·003	...	6·02	10	40 9 19·15	+ 10·304	— ·27	...	...
64	8·5	6·02	9	3 59 9·538	+ 2·1490	+ ·003	...	6·02	10	38 39 4·28	+ 10·087	— ·28	...	...
65	8·4	6·03	9	4 2 59·854	+ 2·3676	+ ·003	...	6·03	10	31 10 27·40	+ 9·795	— ·30	...	...
66	8·4	6·03	9	4 5 55·766	+ 2·3034	+ ·003	...	6·03	9	33 13 22·01	+ 9·570	— ·29	...	...
67	4·0	6 03	10	4 10 51·145	+ 1·9831	+ ·004	+ ·0020	6·03	11	42 31 42·67	+ 9·190	— ·26	— ·221	...
A	...	...	...	·141	...	...	...	...	...	·31	...	...	...	...
68	3–4	6·04	11	4 14 17·943	+ 2·2644	+ ·003	·0035	6·04	12	34 1 48·15	+ 8·934	— ·30	— ·014	...
A	...	...	...	·897	...	...	...	...	...	·21	...	...	...	...
69	8·6	6·03	11	4 17 26·018	+ 2·3366	+ ·033	...	6·03	11	31 25 5·98	+ 8·675	— ·31	...	...
70	4·0	6·04	12	4 20 28·040	+ 2·2475	+ ·003	+ ·0037	6 04	12	34 14 14·04	+ 8·435	— ·30	+ ·050	...
A	...	...	...	·059	...	...	...	...	...	13·76	...	...	...	...
71	9·0	6·04	10	4 23 47·663	+ 2·1254	+ ·003	...	6·04	10	37 48 51·37	+ 8·169	— ·28	...	...
72	8·0	6·04	10	4 27 47·862	+ 2·1798	+ ·003	...	6·04	10	35 58 38·14	+ 7·849	— ·29	...	sf
73	7·5	6·04	10	4 31 12·158	+ 2·1775	+ ·003	...	6·04	10	35 52 53·76	+ 7·574	— ·30	...	sp

PERTH CATALOGUE, 1905·0.

No.	Mag.	Mean Date. 1900+	No. of Obs.	Mean R.A. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Mean Date. 1900+	No. of Obs.	Mean Declination. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Remarks.
				h. m. s.	s.	s.	s.			° ′ ″	″	″	″	
74	9·0	6·04	10	4 34 33·960	+ 2·0229	+ ·004	...	6.04	10	40 8 30·29	+ 7·299	— ·28	...	...
75	5–4	6·04	11	4 37 29·983	+ 1·9445	+ ·004	— ·0146	6·04	11	42 2 41·50	+ 7·061	— ·27	— ·083	...
A	...	...	...	·987	...	...	...	...	...	·66	...	...	...	...
76	7·5	6·05	10	4 43 2·428	+ 2·0766	+ ·003	...	6·05	10	38 17 4·19	+ 6·606	— ·29	...	...
77	8·6	6·05	9	4 47 16·803	+ 2·0198	+ ·004	...	6·05	10	39 39 47·55	+ 6·254	— ·28	...	...
78	8·8	6·06	11	4 50 27·057	+ 2·2708	+ ·003	...	6·06	11	32 9 21·91	+ 5·990	— ·32	...	...
79	8·6	6·06	10	4 54 36·149	+ 2·2988	+ ·003	...	6·06	10	31 6 16·56	+ 5·643	— ·32	...	...
80	8·6	6·06	11	4 59 12·246	+ 2·2260	+ ·003	...	6·06	11	33 16 51·17	+ 5·256	— ·31	...	np
81	8·7	6·07	10	5 4 9·326	+ 2·1939	+ ·003	...	6·07	10	34 7 5·05	+ 4·837	— ·31	...	...
82	7·3	6·07	11	5 7 33·526	+ 2·1605	+ ·003	...	6·07	11	35 1 12·96	+ 4·546	— ·30	...	...
83	6·0	6·07	10	5 11 7·170	+ 2·1206	+ ·003	...	6·07	10	36 5 7·66	+ 4·243	— ·30	...	...
84	5·0	6·08	11	5 14 3·461	+ 2·1559	+ ·003	+ ·0062	6·08	11	34 59 16·88	+ 3·992	— ·31	— ·329	...
A	...	...	...	·455	...	...	...	...	...	15·99	...	...	...	...
85	8·0	6·08	10	5 16 48·060	+ 2·0700	+ ·003	...	6·08	10	37 21 55·80	+ 3·756	— ·29	...	...
86	6·0	6·08	10	5 20 15·839	+ 1·9771	+ ·003	...	6·08	10	39 45 58·69	+ 3·458	— ·28	...	...
87	7·5	6·08	11	5 25 48·633	+ 2·0030	+ ·003	...	6·08	11	38 59 3·31	+ 2·979	— ·29	...	...
88	4·0	6·08	12	5 27 50·359	+ 2·1273	+ ·003	+ ·0019	6·08	12	35 32 23·64	+ 2·804	— ·31	— ·048	...
A	...	...	...	·383	...	...	...	...	...	·81	...	...	...	...
89	6·8	6·09	9	5 31 21·517	+ 2·2518	+ ·002	...	6·09	10	31 45 23·13	+ 2·494	— ·33	...	...
90	2–3	6·10	6	5 36 12·493	+ 2·1718	+ ·003	— ·0003	6·10	6	34 7 28·00	+ 2·078	— ·32	— ·038	...
A	...	...	...	·489	...	...	...	...	...	·33	...	...	...	...
91	8·6	6·09	9	5 40 4·011	+ 1·9472	+ ·003	...	6·09	9	40 12 16·86	+ 1·741	— ·28	...	...
92	4·6	6·09	9	5 42 28·022	+ 2·2288	+ ·002	...	6·09	10	32 20 32·01	+ 1·532	— ·33	...	...
93	3·0	6·09	10	5 47 36·638	+ 2·1100	+ ·003	+ ·0031	6·09	10	35 48 13·13	+ 1·083	— ·31	+ ·403	...
A	...	...	...	·599	...	...	...	...	...	·47	...	...	...	...
94	8·6	6·09	11	5 50 51·886	+ 2·1753	+ ·002	...	6·09	10	33 53 47·55	+ 0·799	— ·32	...	...
95	9·0	6·09	10	5 53 30·208	+ 2·0890	+ ·002	...	6·09	10	36 21 44·49	+ 0·568	— ·31	...	...
96	8·6	6·09	11	5 56 41·937	+ 1·9125	+ ·002	...	6·09	11	40 57 42·06	+ 0·289	— ·28	...	...
97	8·5	6·09	10	6 0 11·603	+ 1·9951	+ ·002	...	6·09	10	38 52 27·01	— 0·018	— ·29	...	...
98	8·6	6·09	11	6 4 0·562	+ 1·9810	+ ·002	...	6·09	11	39 14 38·42	— 0·351	— ·29	...	...
99	8·6	6·09	11	6 7 28·237	+ 2·2459	+ ·002	...	6·09	11	31 45 8·53	— 0·653	— ·33	...	...
100	8·4	6·08	11	6 10 34·874	+ 2·2001	+ ·002	...	6·08	11	33 9 54·42	— 0·925	— ·32	...	...
101	5·0	6·09	12	6 13 10·285	+ 2·1345	+ ·002	— ·0008	6·09	12	35 6 31·04	— 1·151	— ·31	+ ·074	...
A	...	...	...	·324	...	...	...	...	...	·17	...	...	...	...
102	6·2	6·09	11	6 16 15·549	+ 2·1613	+ ·002	...	6·09	11	34 21 18·89	— 1·420	— ·32	...	...
103	7·0	6·09	11	6 20 28·468	+ 2·0708	+ ·002	...	6·09	11	36 57 49·30	— 1·788	— ·31	...	sp. of 3
104	5–4	6·09	11	6 24 38·823	+ 2·2254	+ ·002	— ·0049	6·09	11	32 31 11·62	— 2·152	— ·32	+ ·021	...
A	...	...	...	·770	...	...	...	...	...	12·10	...	...	...	...
105	5·0	6·09	10	6 29 5·974	+ 2·0507	+ ·002	...	6·09	10	37 37 26·56	— 2·538	— ·30	...	...
106	7·2	6·09	10	6 32 10·869	+ 2·0112	+ ·001	...	6·09	10	38 43 53·18	— 2·806	— ·29	...	...
107	3–4	6·10	11	6 34 51·227	+ 1·8358	+ ·001	— ·0005	6·10	10	43 6 45·11	— 3·036	— ·26	— ·019	...
A	...	...	...	·247	...	...	...	...	...	44·94	...	...	...	...
108	6·5	6·10	10	6 38 8·317	+ 1·9564	+ ·001	...	6·09	9	40 15 31·87	— 3·320	— ·28	...	sp.
109	8·6	6·11	9	6 41 9·154	+ 1·9744	+ ·001	...	6·11	9	39 51 59·87	— 3·580	— ·28	...	sf.
110	4·0	6·12	12	6 46 17·518	+ 2·2417	+ ·001	— ·0017	6·12	12	32 23 54·53	— 4·022	— ·32	+ ·018	mf. of 3
A	...	...	...	·525	...	...	...	...	...	53·96	...	...	...	...
111	8·4	6·12	10	6 49 11·427	+ 2·2194	+ ·001	...	6·12	10	33 9 39·26	— 4·269	— ·32	...	sf.
112	6·4	6·12	10	6 52 19·212	+ 2·2696	+ ·001	...	6·12	10	31 39 59·82	— 4·536	— ·32	...	...
113	8·0	6·12	11	6 55 15·701	+ 2·1676	+ ·001	...	6·12	11	34 53 16·37	— 4·787	— ·31	...	...
114	7·0	6·12	10	6 58 22·736	+ 2·1531	+ ·001	...	6·12	10	35 24 39·44	— 5 052	— ·30	...	...

PERTH CATALOGUE, 1905·0.

No.	Mag.	Mean Date. 1900+	No. of Obs.	Mean R.A. 1905·0.	Annual Precession, 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Mean Date. 1900+	No. of Obs.	Mean Declination. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Remarks.
				h. m. s.	s.	.	s.			° ′ ″	′	″	″	
115	7·0	6·12	10	7 1 33·389	+ 1·9783	+ ·001	...	6·12	10	40 20 25·66	— 5·319	— ·28	...	...
116	8·5	6·12	10	7 4 59·908	+ 2·0985	+ ·001	...	6·12	10	37 12 13·34	— 5·610	— ·29	...	sf
117	7·0	6·13	11	7 8 9·023	+ 2·0399	+ ·001	...	6·13	11	38 56 40·11	— 5·873	— ·29	...	...
117a	8·5	6·14	10	7 10 21·294	+ 2·1753	+ ·001	...	6·14	10	35 9 20·95	— 6·056	— ·30	...	...
118	3–2	6·14	12	7 13 47·252	+ 2·1198	+ ·001	—·0015	6·14	12	36 55 35·36	— 6·343	— ·29	+ ·004	..
A	...	...	...	·218	...	...	...	...	...	·94	...	...	...	...
119	8·5	6·14	10	7 19 5·112	+ 2·0516	+ ·001	...	6·14	10	39 4 10·46	— 6·781	— ·28	...	...
120	8·1	6·16	10	7 22 0·252	+ 2·2806	+ ·001	...	6·16	10	32 19 13·10	— 7·020	— ·31	...	...
121	6·2	6·16	10	7 25 12·215	+ 2·3049	+ ·001	...	6·16	10	31 39 9·06	— 7·282	— ·31	...	sp
122	8·6	6·17	9	7 28 21·057	+ 2·2619	+ ·001	...	6·17	9	33 12 29·00	— 7·538	— ·30	...	...
123	8·5	6·17	9	7 30 24·539	+ 2·2148	+ ·002	...	6·17	9	34 48 17·96	— 7·704	— ·29	...	nf
124	5·0	6·17	10	7 33 51·144	+ 2·2219	+ ·001	—·0028	6·17	10	34 45 16·49	— 7·981	— ·29	+ ·018	...
A	...	...	...	·166	...	...	...	...	...	·45	...	...	...	...
125	8·5	6·17	10	7 36 4·334	+ 2·1662	+ ·002	...	6·17	10	36 35 35·50	— 8·159	— ·29	...	...
123	4–3	6·17	10	7 41 52·125	+ 2·1387	+ ·001	—·0042	6·17	10	37 44 16·09	— 8·620	— ·28	— ·002	...
A	...	...	...	·102	...	...	...	...	...	·11	...	...	...	...
127	8·4	6·17	10	7 45 41·742	+ 2·2927	+ ·001	...	6·17	10	33 5 26·18	— 8·921	— ·30	...	sp
128	4·0	6·17	11	7 48 57·016	+ 2·0631	+ ·001	—·0020	6·17	11	40 20 49·69	— 9·175	— ·26	+ ·003	...
A	...	...	...	·054	...	...	...	...	...	·78	...	...	...	...
129	8·0	6·17	10	7 51 28·976	+ 2·1439	+ ·001	...	6·17	10	38 10 7·67	— 9·371	— ·27	...	sp
130	7·5	6·17	11	7 54 26·873	+ 2·0927	+ ·001	...	6·17	11	39 52 0·39	— 9·600	— ·26	...	sf
131	8·4	6·19	10	7 57 26·441	+ 2·3663	+ ·001	...	6·19	10	31 13 47·27	— 9·828	— ·29	...	nf of 3
132	2–3	6·17	11	8 0 14·681	+ 2·1111	+ ·001	—·0035	6·17	11	39 44 7·04	— 10·042	— ·26	+ ·013	...
A	...	...	...	·674	...	...	...	...	...	6·97	...	...	...	...
133	8·3	6·18	10	8 4 4·969	+ 2·3340	+ ·001	...	6·18	8	32 48 55·22	— 10·331	— ·29	...	np
134	8·5	6·18	10	8 7 1·961	+ 2·3714	+ ·001	...	6·18	10	31 40 22·56	— 10·551	— ·29	...	...
135	8·4	6·18	11	8 9 49·838	+ 2·3399	+ ·001	...	6·18	11	33 0 41·59	— 10·758	— ·28	...	...
136	5–4	6·18	13	8 14 59·934	+ 2·2544	+ ·002	—·0105	6·18	13	36 21 52·60	— 11·137	— ·27	+ ·091	...
A	...	...	...	·804	...	...	...	...	...	·68	...	...	...	...
137	9·0	6·20	10	8 17 58·633	+ 2·2820	+ ·002	...	6·20	10	35 40 7·48	— 11·353	... ·27	...	...
138	8·5	6·20	10	8 22 11·308	+ 2·2382	+ ·002	...	6·20	10	37 29 49·69	... 11·654	— ·26	...	...
139	8·5	6·20	10	8 25 2·605	+ 2·2068	+ ·002	...	6·20	10	38 46 38·00	— 11·857	— ·25	...	sf
140	7·5	6·20	12	8 28 41·024	+ 2·1906	+ ·002	...	6·20	11	39 37 49·83	— 12·112	— ·25	...	...
141	8·5	6·20	11	8 31 15·093	+ 2·1578	+ ·003	...	6·20	10	40 54 25·97	— 12·290	— ·24	...	sf
142	4–5	6·21	13	8 36 23·005	+ 2·3471	+ ·003	—·0001	6·21	12	34 58 14·88	— 12·641	— ·26	— ·024	...
A	...	...	...	·008	...	...	...	...	...	15·43	...	...	...	...
143	4·0	6·21	13	8 39 46·449	+ 2·4111	+ ·003	—·0017	6·21	12	32 50 37·23	— 12·870	— ·26	+ ·015	...
A	...	...	...	·469	...	...	...	...	...	·18	...	...	...	...
144	9·0	6·21	11	8 42 40·121	+ 2·4579	+ ·003	...	6·21	11	31 13 42·75	— 13·063	— ·26	...	sf
145	7·5	6·21	10	8 46 39·221	+ 2·3584	+ ·003	...	6·21	10	35 34 32·40	— 13·325	— ·25	...	nf double
146	8·8	6·23	10	8 49 57·608	+ 2·4223	+ ·004	...	6·22	9	33 25 12·07	— 13·541	— ·25	...	m of 3
147	8·0	6·22	10	8 53 43·668	+ 2·3519	+ ·004	...	6·22	10	36 35 50·76	— 13·782	— ·24	...	np
148	8·5	6·22	10	8 55 57·769	+ 2·2981	+ ·004	...	6·22	10	38 51 1·41	— 13·923	— ·23	...	...
149	5–4	6·22	9	9 0 52·640	+ 2·0729	+ ·004	—·0071	6·22	9	46 43 9·34	— 14·229	— ·21	— ·024	...
A	...	...	...	·588	...	...	...	...	...	·72	...	...	...	...
150	2–3	6·23	11	9 4 30·063	+ 2·2073	+ ·004	—·0035	6·23	10	43 2 56·81	— 14·450	— ·22	+ ·013	...
A	...	...	...	·028	...	...	...	...	...	55·62	...	...	...	...
151	6·5	6·23	10	9 7 58·760	+ 2·3378	+ ·005	...	6·23	10	38 52 9·80	— 14·660	— ·22	...	...
152	6·5	6·23	11	9 11 9·761	+ 2·3908	+ ·005	...	6·23	11	37 11 26·40	— 14·848	— ·22	...	...
153	8·0	6·24	10	9 14 3·382	+ 2·3134	+ ·005	...	6·24	10	40 36 44·52	— 15·016	— ·21	...	...

PERTH CATALOGUE, 1905·0.

No.	Mag.	Mean Date. 1900+	No. of Obs.	Mean R.A. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Mean Date. 1900+	No. of Obs.	Mean Declination. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Remarks.
				h. m. s.	s.	s.	s.			° ′ ″	″	″	″	
154	8·2	6 25	12	9 18 39·402	+ 2·3658	+ ·006	...	6·25	12	39 14 49·82	— 15·280	— ·22	...	nf
155	8·8	6·25	10	9 21 49 552	+ 2·5455	+ ·005	...	6·25	10	31 46 30·15	— 15·459	— ·23	...	nf
156	5 0	6·25	12	9 25 19·403	+ 2·4761	+ ·006	—·0027	6·25	12	35 32 8·22	— 15·651	— ·22	— ·010	...
A	...	...	...	·408	...	...	...	...	...	·28	...	...	...	...
157	8·6	6·26	10	9 29 3·591	+ 2·5485	+ ·006	...	6·26	10	32 38 49·40	— 15·854	— ·22	...	sp
158	5 0	6·26	11	9 33 25·512	+ 2·1572	+ ·007	—·0120	6·26	10	48 55 44·70	— 16·084	— ·18	+ ·030	...
A	...	...	...	·503	...	...	...	...	...	·58	...	...	...	...
159	8·8	6·27	10	9 36 9·360	+ 2·5457	+ ·007	...	6·27	10	33 52 20·65	— 16·225	— ·20	...	nf
160	8·5	6·27	10	9 39 58·878	+ 2·5426	+ ·007	...	6·27	9	34 39 7·58	— 16·420	— ·20	...	sp
161	8·0	6·27	10	9 42 54·560	+ 2·4657	+ ·008	...	6·27	10	38 53 1·96	— 16·566	— ·20	...	...
162	8·0	6 27	10	9 45 27·335	+ 2·4961	+ ·008	...	6·27	10	37 54 25·05	— 16·689	— ·19	...	sf
163	8·5	6·27	10	9 49 14·178	+ 2·5290	+ ·008	...	6·27	10	36 58 49·51	— 16·870	— ·19	...	sf
164	8·0	6·27	10	9 51 34·757	+ 2·4769	+ ·009	...	6·27	10	39 59 3·23	— 16·981	— ·19	...	nf
165	8·0	6 27	11	9 54 50·029	+ 2·4711	+ ·009	...	6·27	11	40 54 18·87	— 17·130	— ·19	...	...
166	8 6	6·27	10	9 58 31·631	+ 2·6583	+ ·008	...	6 27	10	31 30 41·83	— 17·296	— ·19	...	sf
167	7·4	6·28	11	10 1 21·882	+ 2·6442	+ ·008	...	6·28	11	32 55 46·97	— 17·420	— ·19	...	...
168	8·7	6·29	8	10 4 46·178	+ 2·6383	+ ·009	...	6·29	8	33 59 28·77	— 17·565	— ·17	...	sf
169	7·0	6·28	12	10 7 43·073	+ 2·6346	+ ·010	...	6·28	12	34 51 20·65	— 17·688	— ·17	...	...
170	4·0	6·29	11	10 10 44·805	+ 2·5271	+ ·012	—·0156	6·29	12	41 39 3·74	— 17·811	— ·16	+ ·049	...
A	...	...	...	·760	...	...	...	...	...	·76	...	...	...	...
171	8·0	6·28	11	10 14 22·679	+ 2·6520	+ ·010	...	6·28	11	35 18 11·27	— 17·955	— ·16	...	...
172	6–5	6·29	14	10 19 19·576	+ 2·6360	+ ·012	—·0150	6·29	14	37 31 39·52	— 18·143	— ·16	— ·054	...
A	...	...	...	·622	...	...	...	...	...	·42	...	...	...	...
173	4–5	6·29	14	10 22 48·199	+ 2·7475	+ ·010	—·0079	6·29	14	30 35 2·07	— 18·270	— ·16	+ ·010	...
A	...	...	...	·176	...	...	...	...	...	·02	...	...	...	...
174	8·5	6·30	10	10 25 55·829	+ 2·6822	+ ·012	...	6·30	10	36 12 15·40	— 18·381	— ·15	...	sF
175	7·5	6·30	11	10 29 19·056	+ 2·6442	+ ·014	...	6·30	11	39 44 51·40	— 18·497	— ·14	...	...
176	7·5	6·30	10	10 32 46·269	+ 2·6432	+ ·014	...	6·30	10	40 50 52·88	— 18·611	— ·14	...	...
177	8·5	6·30	10	10 37 53·679	+ 2·6949	+ ·014	...	6·30	10	38 52 6·96	— 18·774	— ·13	...	...
178	8·2	6·30	10	10 40 28·396	+ 2·7561	+ ·013	...	6·30	10	34 50 42·52	— 18·851	— ·12	...	...
179	6·2	6·29	10	10 43 46·957	+ 2·8084	+ ·012	...	6·29	10	31 11 10·45	— 18·948	— ·13	...	sf
180	8·5	6·30	11	10 48 1·704	+ 2·8029	+ ·013	...	6·30	11	33 9 1·16	— 19·066	— ·12	...	sF
181	5·0	6·30	12	10 52 17·299	+ 2·7832	+ ·016	+·0059	6·30	12	36 37 36·31	— 19·177	— ·11	— ·132	...
A	...	...	...	·338	...	...	...	...	...	37·03	...	...	...	...
182	8 0	6·32	10	10 55 3·822	+ 2·8339	+ ·013	...	6·32	10	32 33 57·69	— 19·247	— ·11	...	...
183	9·0	6·32	10	10 58 42·279	+ 2·8223	+ ·016	...	6·32	10	35 18 33·93	— 19·333	— ·10	...	...
184	8·0	6·34	10	11 1 24·147	+ 2·8139	+ ·017	...	6·34	10	37 24 58·54	— 19·394	— ·10	...	...
185	7·0	6·34	10	11 4 11·662	+ 2·8120	+ ·018	...	6·34	10	38 57 28·17	— 19·455	— ·10	...	nf
186	8·8	6·35	10	11 7 20·116	+ 2·8208	+ ·019	...	6·35	10	39 35 10·15	— 19·519	— ·09	...	...
187	7·5	6·35	10	11 10 59·519	+ 2·8299	+ ·020	...	6·35	9	40 32 21·51	— 19·589	— ·08	...	...
188	8·8	6·35	9	11 14 21·431	+ 2·8998	+ ·016	...	6·35	9	33 8 58·36	— 19·650	— ·08	...	nf
189	8·5	6·35	10	11 17 14·150	+ 2·9129	+ ·016	...	6·35	9	32 46 51·38	— 19·698	— ·07	...	...
190	6–5	6·34	10	11 20 52·903	+ 2·9104	+ ·018	—·0111	6·34	10	35 32 29·02	— 19·755	— ·06	+ ·011	nF
A	...	...	...	·939	...	...	...	...	...	·15	...	...	...	...
191	7·4	6·34	10	11 23 30·677	+ 2·9154	+ ·019	...	6·34	8	36 33 44·96	— 19·792	— ·06	...	...
192	4 0	6·35	10	11 28 19·614	+ 2·9598	+ ·017	—·0174	6·35	9	31 19 55·00	— 19·855	— ·05	— ·038	...
A	...	...	...	·645	...	...	...	...	...	54·70	...	...	...	...
193	7·0	6·35	10	11 32 17·423	+ 2·9446	+ ·021	...	6·35	9	38 26 1·42	— 19·900	— ·04	...	np
194	5·0	6·36	10	11 35 29·507	+ 2·9755	+ ·019	—·0034	6·36	10	34 13 5·60	— 19·932	— ·04	+ ·006	...
A	...	...	...	·566	...	...	...	...	...	·21	...	...	...	...

PERTH CATALOGUE, 1905·0.

No.	Mag.	Mean Date. 1900+	No. of Obs.	Mean R.A. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Mean Date. 1900+	No. of Obs.	Mean Declination. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Remarks.
				h. m. s.	s.		s.			° ′ ″	″	″	″	
195	8·0	6·35	10	11 38 8·782	+ 2·9740	+ ·022	...	6·35	9	37 45 46·31	— 19·955	— ·03	...	nf
196	5·0	6·36	10	11 41 58·985	+ 2·9845	+ ·024	— ·133	6·36	9	39 58 58·64	— 19·984	— ·02	+ ·390	nF
197	8·0	6·36	11	11 44 56·051	+ 3·0178	+ ·019	...	6·36	10	31 54 59 54	— 20 003	— ·02	...	...
198	8·5	6·36	10	11 48 13·883	+ 3·0131	+ ·026	...	6·36	9	40 53 35·29	— 20·020	— ·01	...	sf of 3
199	6·5	6·36	10	11 52 14·051	+ 3·0434	+ ·020	...	6·36	9	32 47 11·52	— 20·034	·00	...	...
200	7·5	6·36	10	11 55 26·132	+ 3·0534	+ ·023	...	6·36	9	35 45 20·13	— 20·042	·00	...	...
201	6–5	6·36	10	11 58 44·216	+ 3·0659	+ ·028	+ ·0262	6·36	8	41 54 7·72	— 20·046	+ ·01	— ·117	...
A	...	...	...	·133	...	...	...	...	...	·53	...	...	...	...
202	9·0	6·37	10	12 1 23·235	+ 3·0780	+ ·022	...	6·37	9	33 56 37·52	— 20·046	+ ·01	...	..
203	6·5	6·40	9	12 5 7·991	+ 3·0928	+ ·022	...	6·40	9	34 10 33·60	— 20·041	+ ·02	...	...
204	7·5	6·39	9	12 7 51·556	+ 3·1071	+ ·025		6·39	9	36 59 54·71	— 20·034	+ 02	...	nf
205	9·2	6·39	10	12 11 14·121	+ 3·1274	+ ·028		6·39	9	39 58 38·55	— 20·022	+ 04	...	sf
206	7·8	6·39	10	12 15 6·474	+ 3·1395	+ ·026	...	6·39	9	37 16 22·66	— 20·002	+ 04	...	...
207	7·2	6·39	10	12 17 42·372	+ 3·1550	+ ·027		6·39	9	38 38 49·29	— 19·986	+ 05	...	sf
208	6·0	6·39	10	12 20 21·197	+ 3·1545	+ ·025	— ·013	6·39	9	34 39 35·69	— 19·967	+ 05	— ·021	...
A	...	...	...	·083	...	...	...	...	...	36·03	...	...	...	...
209	8·0	6·41	10	12 24 43·857	+ 3·1971	+ ·030	...	6·41	8	40 52 38·21	— 19·929	+ 07	...	sF
210	7·0	6·41	10	12 27 32·788	+ 3·1724	+ ·023	...	6·41	9	31 56 23·41	— 19·901	+ 07	...	nf
211	8·8	6·41	10	12 30 32·824	+ 3·1983	+ ·025	...	6·41	9	35 18 4·78	— 19·868	+ 07	...	p
212	9·0	6·41	10	12 34 11·224	+ 3·1976	+ ·023	...	6·41	9	32 12 7·77	— 19·823	+ 08	...	...
213	8·0	6·42	10	12 37 23·654	+ 3·2384	+ ·029	...	6·42	9	37 22 55·25	— 19·780	+ 08	...	nf of 3
214	6·0	6·42	10	12 40 18·363	+ 3·2482	+ ·028	...	6·42	9	36 55 45·91	— 19·737	+ 09	...	...
215	5·6	6·42	9	12 45 31·711	+ 3·2470	+ ·026	— ·0036	6·42	9	33 28 53·28	— 19·652	+ 10	— ·034	...
A	...	...	...	·746	...	...	...	...	...	·31	...	...	...	...
216	4–5	6·42	10	12 48 10·270	+ 3·3037	+ ·032	+ ·0041	6·42	9	39 39 44·27	— 19·605	+ 11	— ·032	...
A	...	...	...	·275	...	...	...	...	...	·49	...	...	...	...
217	8·5	6·42	10	12 50 44·635	+ 3·3230	+ ·034	...	6·42	8	40 28 55·36	— 19·556	+ 12	. .	nf
218	8·5	6·43	9	12 55 27·251	+ 3·3298	+ ·031	...	6·43	9	38 46 57·35	— 19·462	+ 12	...	...
219	8·2	6·43	10	12 59 37·149	+ 3·2926	+ ·026	...	6·43	9	32 37 39·21	— 19·372	+ 13	...	sf
220	8·5	6·46	10	13 2 20·592	+ 3·2962	+ ·025	...	6·46	10	31 55 11·74	— 19·309	+ 13	...	...
221	7·0	6·48	9	13 6 12·382	+ 3·3354	+ ·028	...	6·48	10	34 37 29·52	— 19·216	+ 14	...	nf
222	8·5	6·48	10	13 9 9·446	+ 3·3346	+ ·027	...	6·48	10	33 25 36·10	— 19·140	+ 15	...	...
223	6–5	6·48	11	13 11 36·360	+ 3·3194	+ ·025	+ ·0028	6·48	11	31 0 13·18	— 19·076	+ 16	— ·060	...
A	...	...	...	·389	...	...	...	...	...	12·70	...	...	...	...
224	3·0	6·48	11	13 15 15·171	+ 3·3881	+ ·030	— ·0298	6·48	10	36 12 41·08	— 18·975	+ 16	— ·087	...
A	...	...	...	·176	...	...	...	...	...	40·85	...	...	...	...
225	8·5	6·48	10	13 19 29·072	+ 3·3941	+ ·029	...	6·48	10	35 17 36·61	— 18·852	+ 17	...	...
226	8·7	6·48	10	13 22 21·240	+ 3·4654	+ ·035	...	6·48	10	39 54 2·46	— 18·766	+ 19	...	...
227	4–5	6·47	10	13 25 31·929	+ 3·4659	+ ·034	— ·0041	6·47	10	38 55 0·43	— 18·666	+ 19	— ·013	...
A	...	...	...	·855	...	...	...	...	...	·48	...	...	...	...
228	8·5	6·47	10	13 28 14·651	+ 3·4615	+ ·032	...	6·47	10	37 45 13·76	— 18·578	+ 20	...	n
229	8·0	6·47	10	13 31 42·335	+ 3·5158	+ ·036	...	6·47	10	40 24 45·42	— 18·463	+ 21	...	...
230	7·5	6·47	10	13 35 3·203	+ 3·4341	+ ·029	...	6·47	10	33 52 36·01	— 18·346	+ 21	...	...
231	4–5	6·48	12	13 40 17·156	+ 3·4342	+ ·028	— ·0375	6·48	12	32 33 48·89	— 18·157	+ 22	— ·151	...
A	...	...	...	·162	...	...	...	...	...	·48	...	...	...	...
232	6·7	6·48	10	13 43 26·702	+ 3·4842	+ ·030	...	6·48	10	35 13 34·71	— 18·038	+ 23	...	...
233	8·0	6·48	10	13 47 41·205	+ 3·4397	+ ·026	...	6·48	10	31 15 8·54	— 17·874	+ 23	...	nf
234	7·5	6·48	10	13 51 34·662	+ 3·5013	+ ·030	...	6·48	10	34 26 20·92	—17·717	+.24	...	...
235	7·5	6·49	10	13 54 42·751	+ 3·5547	+ ·033	...	6·49	10	36 56 11·72	—17·587	+ ·26	...	m of 3
236	8·5	6·49	11	13 58 19·362	+ 3·5880	+ ·034	...	6·49	11	38 0 10·31	—17·434	+ ·27	...	...

PERTH CATALOGUE, 1905·0.

No.	Mag.	Mean Date. 1900+	No. of Obs.	Mean R.A. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Mean Date. 1900+	No. of Obs.	Mean Declination. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Remarks.
				h. m. s.	s.	.	s.			° ′ ″	″	″	″	
237	2–3	6·50	11	14 0 5·256	+3·5566	+·032	—·0444	6·50	11	35 54 10·52	—17·357	+·26	—·525	...
A	...	...	...	·278	...	...	...	...	..	·13	...	...	...	...
238	9·0	6·51	10	14 5 5·934	+3·6291	+·035	...	6·51	10	38 44 13·37	—17·133	+·28	...	...
239	8·0	6·51	10	14 8 20·380	+3·5092	+·028	...	6·51	10	31 36 6·85	—16·984	+·27	...	...
240	8·0	6·51	10	14 11 46·969	+3·6915	+·038	...	6·51	10	40 25 15·89	—16·822	+·30	...	...
241	9·0	6 51	10	14 14 23·393	+3·5621	+·029	...	6·51	10	33 30 26·12	—16·698	+·29	...	...
242	5·0	6·51	10	14 17 10·789	+3·6840	+·036	—·0054	6·51	10	39 04 41·38	—16·561	+·31	—·040	nf
A	...	...	...	·760	...	...	...	...	...	·41	...	...	...	...
243	7·3	6·51	10	14 20 47·162	+3·5693	+·028	...	6·51	10	32 49 18·51	—16·381	+·30	...	...
244	8·0	6·51	10	14 23 44·756	+3·6553	+·032	...	6·51	10	36 36 51·62	—16·230	+·32	...	...
245	9 0	6·51	9	14 27 54·234	+3·6533	+·031	...	6·51	10	35 51 1·36	—16·015	+·33	...	...
246	6·0	6·51	10	14 30 46·071	+3·7532	+·036	...	6·51	10	39 47 47·89	—15·863	+·34	...	...
247	8·5	6·51	10	14 33 55·102	+3·7255	+·033	...	6.51	10	38 08 29·74	—15·993	+·34	...	F
248	4–5	6·51	10	14 37 50·632	+3·6621	+·030	—·0067	6·51	10	34 45 53·70	—15·476	+·35	—·194	...
A	...	...	...	·605	...	...	...	...	...	·63	...	...	...	...
249	6·5	6·52	10	14 41 7·372	+3·7449	+·033	...	6·52	10	37 53 22·62	—15·293	+·36	...	...
250	9·2	6·52	10	14 43 57·484	+3·8144	+.036	...	6·52	10	40 14 43·91	—15·132	+·36	...	...
251	8·5	6·52	10	14 46 45·906	+4·6198	+·026	...	6·52	10	31 37 9·85	—14·969	+·35	...	...
252	6·0	6·52	10	14 49 54·667	+3·6692	+·028	+·0017	6·52	10	33 28 13·01	—14·784	+·36	—·012	...
A	...	...	...	·676	...	...	...	...	...	·16	...	...	...	...
253	8·8	6·52	10	14 53 18·413	+3·6490	+·026	...	6·52	10	32 09 33·02	—14·583	+·37	...	...
254	9·0	6·53	10	14 57 26·841	+3·7108	+·028	...	6·53	10	34 20 16·22	—14·331	+·39	...	nf
255	8·5	6·53	11	15 0 21·815	+3·7362	+·029	...	6·53	11	35 2 13·84	—14·152	+·39	...	...
256	8·5	6·53	11	15 4 10·070	+3·7765	+·030	...	6·53	11	36 11 41·09	—13·915	+·40	...	...
257	8·5	6·36	10	15 7 16·702	+3·7046	+·027	...	6·36	10	32 58 5·91	—13·717	+·39	...	...
258	8·0	6·36	10	15 11 13·690	+3·7461	+·027	...	6·36	10	34 13 35·59	—13·463	+·41	...	...
259	4–3	6·36	10	15 15 46·486	+3·8024	+·029	—·0088	6·36	10	35 55 1·13	—13·167	+·42	—·091	...
A	...	...	...	·485	...	...	...	...	...	·42	...	...	...	...
260	7·8	6·36	10	15 19 10·386	+3·7058	+·024	...	6·36	10	31 49 10·36	—12·941	+·41	...	...
261	7·8	6·29	11	15 22 5·245	+3·7479	+·026	...	6·29	11	33 12 47·97	—12·745	+·43	...	...
263	3·0	6·29	11	15 28 48·405	+3·9855	+·033	—·0032	6·29	11	40 50 51·30	—12·286	+·46	—·036	...
A	...	...	...	·365	...	...	...	...	...	·89	...	...	...	...
264	8·0	6·27	10	15 33 56·055	+3·9238	+·029	...	6·27	10	38 24 0·39	—11·928	+·46	...	...
265	8·8	6·27	10	15 37 36·648	+3·8918	+·027	...	6·27	10	37 0 46·85	—11·668	+·46	...	...
266	7·0	6·27	10	15 41 6·248	+3·9908	+·029	...	6·27	10	39 53 51·95	—11·419	+·48	...	...
267	5–4	6·30	11	15 44 55·139	+3·8033	+·024	—·0021	6·30	11	33 20 17·24	—11·143	+·46	—·027	...
A	...	...	...	·136	...	...	...	...	...	·01	...	...	...	...
268	6·5	6·30	11	15 50 15·069	+ 3·7639	+ ·022	...	6·30	11	31 30 29·68	— 10·752	+ ·46	...	...
269	7·0	6·30	11	15 53 17·935	+ 3·8038	+ ·022	...	6·30	11	32 44 23·61	— 10·526	+ ·47	...	...
270	8·7	6·30	10	15 56 34·429	+ 3·8741	+ ·023	...	6·30	10	34 56 29·39	— 10·282	+ ·49	...	nf of 3
271	5·0	6·30	10	16 0 21·071	+ 3·9311	+ ·024	− ·0035	6·27	11	36 32 38·69	— 9·996	+ ·50	— ·038	...
A	...	...	...	·044	...	...	...	...	...	·44	...	...	...	...
272	7·5	6·22	11	16 3 48·518	+ 3·9025	+ ·024	...	6·22	11	35 23 24·50	— 9·734	+ ·50	...	...
273	8·0	6·19	10	16 8 13·197	+ 4·0404	+ ·026	...	6·19	10	39 20 41·61	— 9·394	+ ·52	...	np
274	7·5	6·28	10	16 11 25·954	+ 3·9856	+ ·024	...	6·28	10	37 31 2·66	— 9·145	+ ·52	...	...
275	8·5	6·38	10	16 15 5·110	+ 3·8082	+ ·019	...	6·38	10	31 32 5·76	— 8·860	+ ·50	...	...
276	6·0	6·31	11	16 17 35·028	+ 4·0474	+ ·024	+ ·0042	6·31	11	38 58 16·54	— 8·663	+ ·54	— ·019	...
A	...	...	...	·046	...	...	...	...	...	·58	...	...	...	...
277	9 0	6·31	10	16 22 19·587	+ 4·1066	+ ·023	...	6·31	10	40 21 33·14	— 8·288	+ ·54	...	...
278	5–4	6·31	10	16 25 10·302	+ 3·9134	+ ·019	— ·0049	6·31	10	34 29 52·03	— 8·060	+ ·53	— ·026	...

PERTH CATALOGUE, 1905·0.

No.	Mag.	Meau Date. 1900+	No. of Obs.	Mean R.A. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Mean Date. 1900+	No. of Obs.	Mean Decliuation. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Remarks.
				h. m. s.	s.	s.	s.			° ′ ″	″	″	″	
278A	5–4	6·31	10	16 25 10·242	+ 3·9134	+ ·019	— ·0049	6·31	10	34 29 52·16	— 8·060	+ ·53	— ·026	...
279	8·0	6·31	10	16 29 12·663	+ 3·8922	+ ·018	...	6·31	10	33 37 2·16	— 7·736	+ ·52	...	...
280	8 8	6·31	10	16 32 14·036	+ 3·8514	+ ·016	...	6·31	10	32 8 33·01	— 7·490	+ ·52	...	...
281	7·0	6·20	10	16 36 7·478	+ 4·0093	+ ·019	...	6·20	10	36 53 40·68	— 7·174	+ ·54	...	...
282	8·8	6·10	10	16 40 19·255	+ 3·9727	+ ·017	...	6·10	10	35 37 12·24	— 6 830	+ ·55	...	nF
283	4·0	5·80	6	16 45 53·940	+ 4·0574	+ ·018	— ·0030	5·80	6	37 51 21·98	— 6·369	+ ·56	— ·033	nf
A	...	...	...	·943	...	...	...	...	...	·44	...	...	...	...
284	7·5	5·92	10	16 48 38·139	+ 4·0757	+ ·017	...	5·92	10	38 15 29·08	— 6·142	+ ·57	...	...
285	7·8	5·95	9	16 52 23·934	+ 4·1088	+ ·017	..	5·97	11	39 1 19·45	— 5·827	+ ·58	...	...
286	6–5	6·03	12	16 55 43·930	+ 3·8751	+ ·013	— ·0037	6·03	12	32 0 9·73	— 5·548	+ ·54	— ·073	...
A	...	. .	...	·888	...	...	...	...	...	10·35	...	...	...	...
287	8·0	5·98	10	16 58 41·077	+ 4·1918	+ ·017	...	5·98	11	40 58 20·96	— 5·299	+ ·59	...	...
288	8·8	5·92	10	17 1 49·762	+ 3·8762	+ ·012	...	5·92	10	31 51 1·80	— 5·033	+ ·55	...	nf
289	8·0	5·83	10	17 6 33·555	+ 3·9248	+ ·012	...	5·83	10	33 14 44·72	— 4·633	+ ·56	...	...
290	6·0	5·88	12	17 10 52·736	+ 3·9062	+ ·011	— ·0091	5·88	12	32 33 21·38	— 4·263	+ ·56	— ·050	...
A	...	...	...	·763	...	...	...	...	...	·20	...	...	...	...
291	8·5	5·73	10	17 15 26·522	+ 3·9993	+ ·011	...	5·73	10	35 15 8·86	— 3·874	+ ·56	...	...
292	6·5	5·73	10	17 18 44·081	+ 3·9798	+ ·010	...	5·73	10	34 36 29·24	— 3·590	+ ·57	...	nf
293	3–4	5·73	10	17 24 18·203	+ 4·0754	+ ·009	— ·0030	5·73	10	37 13 13·42	— 3·110	+ ·59	— ·038	...
A	...	...	...	·137	...	...	...	...	...	·47	...	...	...	...
294	8·5	5·73	11	17 27 54·768	+ 4·0572	+ ·008	...	5·73	11	36 39 6 81	— 2·797	+ ·58	...	...
295	8·0	5·73	10	17 30 20·930	+ 4·1708	+ ·008	...	5·73	10	39 36 27·87	— 2·586	+ ·60	...	...
296	3–2	5·75	9	17 35 54·851	+ 4·1480	+ ·007	— ·0022	5·75	9	38 58 52·75	— 2·103	+ ·60	— ·026	...
A	...	...	...	·861	...	...	...	...	...	·88	...	...	...	...
297	3–4	5·89	12	17 40 56·353	+ 4·1936	+ ·006	— ·0017	5·89	12	40 5 25·91	— 1·666	+ ·61	— ·002	...
A	...	...	...	·329	...	...	...	...	...	·82	...	...	...	...
298	8·0	6·00	11	17 44 48·910	+ 3·9372	+ ·005	...	5·94	10	32 57 42·38	— 1·327	+ ·57	...	sF
299	8·0	5·84	10	17 49 23·179	+ 3·9047	+ ·003	...	5·84	10	31 56 20·39	— 0·928	+ ·57	...	nf of 3
300	8·0	5·91	11	17 53 40·605	+ 3·9534	+ ·003	...	5·88	10	33 24 3·48	— 0·552	+ ·58	...	...
301	8·3	6·01	11	17 57 6·896	+ 4·0029	+ ·002	...	6·04	10	34 50 48·91	— 0·252	+ ·58	...	...
302	8·0	5·95	10	18 0 1·954	+ 3·9860	+ ·002	...	5·95	10	34 19 21·16	+ 0·003	+ ·58	...	...
303	8·0	5·92	11	18 4 0·445	+ 4·0882	+ ·001	...	5·92	11	37 14 24·09	+ 0·350	+ ·59	...	...
304	7·3	5·95	10	18 7 34·256	+ 4·1326	·000	...	5·95	10	38 26 11 95	+ 0·662	+ ·60	...	sf
305	3–4	6·01	14	18 11 11·881	+ 4·0707	— ·001	— ·0124	6·01	14	36 47 26·23	+ 0·979	+ ·59	— ·163	...
A	...	...	...	·904	...	...	...	...	...	·01	...	...	...	...
306	7·2	5·84	11	18 14 39·777	+ 4·1549	— ·001	...	5·84	11	39 3 45·53	+ 1·282	+ ·60	...	...
307	2–3	6·02	14	18 17 51·952	+ 3·9858	— ·002	— ·0037	5·97	13	34 25 47·38	+ 1·561	+ ·58	— ·127	sf
A	...	...	...	·975	...	...	...	...	...	·41	...	...	...	...
308	7·5	6·03	11	18 20 54·675	+ 3·8858	— ·003	...	6·03	11	31 25 39·57	+ 1·827	+ ·56	...	...
309	9·0	5·94	11	18 24 45·190	+ 4·1994	— ·005	...	5·99	12	40 18 7·56	+ 2·161	+ ·60	...	sf
310	5·8	5·99	12	18 27 43·805	+ 3·9369	— ·004	...	5·99	12	33 5 13·62	+ 2·420	+ ·56	...	sp
311	8·5	5·99	9	18 31 3·837	+ 3·9221	— ·004	...	5·99	9	32 41 7·77	+ 2·709	+ ·56	...	sF
312	7·0	5·89	9	18 33 57·806	+ 4·0064	— ·005	...	5·89	9	35 14 38·01	+ 2·960	+ ·57	...	sp
313	5–6	6·10	14	18 37 15·924	+ 4·1183	— ·007	— ·0029	6·07	13	38 24 54·07	+ 3·245	+ ·59	— ·053	...
A	...	...	...	·886	...	...	...	...	...	·45	...	...	...	...
314	6·7	5·94	11	18 41 6·094	+ 4·1959	— 009	...	5·94	11	40 30 27·16	+ 3·576	+ ·59	...	...
315	8·0	6·02	11	18 44 5·098	+ 4·0583	— ·007	...	6·02	11	36 55 23·76	+ 3·832	+ ·57	...	...
316	8·0	6·15	10	18 48 3·627	+ 4·1569	— ·010	...	6·15	10	39 40 45·28	+ 4·174	+ ·59	...	sf
317	5–6	6·12	13	18 52 18·893	+ 4·0617	— ·010	— ·0154	6·12	13	37 13 53·84	+ 4·536	+ ·58	— ·102	...
A	...	...	...	·862	...	...	...	...	...	·88	...	...	...	...

PERTH CATALOGUE, 1905·0.

No.	Mag.	Mean Date. 1900+	No. of Obs.	Mean R.A. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Mean Date. 1900+	No. of Obs.	Mean Declination. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Remarks.
				h. m. s.	s.	s.	s.			° ′ ″	″	″	″	
318	8·0	6·05	10	18 56 16·817	+ 3·8537	— ·008	...	6·05	10	31 4 22·87	+ 4·874	+ ·54	...	...
319	8·2	5·94	11	18 59 13·634	+ 3·8972	— ·009	...	5·94	11	32 32 58·87	+ 5·123	+ ·54	...	...
320	4·0	6·09	12	19 3 0·603	+ 4·0793	— ·012	+ ·0053	6·09	12	38 3 10·28	+ 5·443	+ ·57	— ·111	...
A	...	...	...	·580	...	...	...	...	...	·18	...	...	...	...
321	8·0	5·98	10	19 6 14·213	+ 3·9114	— ·011	...	5·98	10	33 13 14·14	+ 5·713	+ ·54	...	...
322	8·0	6·12	9	19 9 2·331	+ 3·9480	— ·012	...	6·09	10	34 27 2·41	+ 5·947	+ ·54	...	sp
323	6·0	6·02	9	19 13 22·316	+ 3·9805	— ·013	...	5 99	10	35 35 40·33	+ 6·308	+ ·55	...	...
324	4·0	6·11	14	19 17 18·311	+ 4·1609	— ·017	+ ·0011	6·09	15	40 47 42·19	+ 6·634	+ ·57	— ·120	...
A	...	...	...	·315	...	...	...	...	...	41·97	...	...	...	...
325	9·0	6·04	9	19 21 13·721	+ 3·9919	— ·014	...	6·04	9	36 15 41·02	+ 6·957	+ ·54	...	nf
326	8·5	5·91	10	19 24 16·364	+ 4·0540	— ·016	...	5·91	10	38 12 11·33	+ 7·206	+ ·54	...	sf
327	8·5	6·04	9	19 27 34·170	+ 4·0093	— ·016	...	6·01	10	37 4 6·03	+ 7·474	+ ·53	...	...
328	8·0	5·94	9	19 30 42·634	+ 4·1055	— ·019	...	5·92	10	39 57 11·17	+ 7·729	+ ·54	...	...
329	7·7	5·94	9	19 33 59·781	+ 3·8332	— ·014	...	5·92	10	31 49 33·54	+ 7·993	+ ·50	...	np of 3
330	7·0	5·94	9	19 37 13·027	+ 3·8900	— ·015	...	5·92	10	33 52 12·91	+ 8·250	+ ·51	...	...
331	5–6	6·04	12	19 39 57·593	+ 3·8335	— ·015	—·0029	6·02	13	32 8 17·33	+ 8·469	+ ·50	— ·035	...
A	...	...	...	·588	...	...	...	...	...	·60	...	...	...	...
332	8·8	6·02	10	19 44 6·162	+ 3·9103	— ·017	...	6·02	10	34 54 8·26	+ 8·795	+ ·50	...	...
333	8·0	5·92	10	19 47 54·869	+ 3·9452	— ·019	...	5·92	10	36 13 56·42	+ 9·094	+ ·50	...	...
334	7·9	5·92	10	19 50 27·404	+ 3·9766	— ·021	...	5·92	10	37 21 28·13	+ 9·291	+ ·51	...	...
335	4–5	6·00	11	19 53 33·248	+ 3·9122	— ·020	—·0018	6·06	12	35 32 0·95	+ 9·530	+ ·50	— ·038	...
A	...	...	...	·252	...	...	...	...	...	·61	...	...	...	...
336	5·0	5·82	10	19 57 14·853	+ 3·9896	— ·023	...	5·83	9	38 12 13·93	+ 9·814	+ ·50	...	...
337	8·6	6·04	10	20 0 55·442	+ 4·0286	— ·025	...	6·04	10	39 37 31·03	+ 10·092	+ ·51	...	np
338	8·0	6·14	10	20 4 14·411	+ 3·7725	— ·018	...	6·14	10	31 26 38·54	+ 10·342	+ ·46	...	...
339	8·7	6·08	9	20 6 59·027	+ 3·8114	— ·019	...	6·18	9	33 1 39·23	+ 10·547	+ ·46	...	...
340	7·8	6·07	9	20 10 54·317	+ 3·7999	— ·019	...	6·07	9	32 54 1·07	+ 10·837	+ ·46	...	nP
341	6·8	5·96	9	20 14 9·366	+ 3·8491	— ·021	...	5·94	10	34 52 55·98	+ 11·075	+ ·46	...	...
342	7·0	5·86	8	20 16 53·691	+ 3·8660	— ·023	...	5·84	10	35 40 49·43	+ 11·275	+ ·46	...	...
343	7·5	5·75	9	20 20 58·517	+ 3·8673	— ·023	...	5·75	10	36 3 36·66	+ 11·567	+ ·46	...	...
344	8·8	5·75	7	20 23 35·040	+ 4·0034	— ·029	...	5·75	9	40 41 25·51	+ 11·753	+ ·46	...	...
345	8·5	5·85	9	20 26 17·201	+ 3·8864	— ·024	...	5·84	10	37 10 30·13	+ 11·944	+ ·45	...	...
346*a*	7·0	6·02	12	20 30 46·758	+ 3·8903	— ·026	...	6·05	13	37 42 57·68	+ 12·258	+ ·44	...	sp
347	6·0	6·06	13	20 34 22·343	+ 3·7710	— ·023	·0000	6·01	15	33 46 5·26	+ 12·504	+ ·42	·000	...
A	...	...	...	·361	...	...	...	...	...	6·14	...	...	...	...
348	8·5	5·76	10	20 38 39·129	+ 3·9328	— ·029	...	5·76	11	39 54 14·75	+ 12·795	+ ·44	...	...
349	8·5	5·75	10	20 41 23·112	+ 3·7041	— ·021	...	5·75	11	31 48 8·53	+ 12·978	+ ·40	...	...
350	6·5	5·75	10	20 44 2·145	+ 3·7561	— ·023	...	5·75	10	34 7 53·79	+ 13·154	+ ·41	...	...
351	6–5	5·97	14	20 47 29·409	+ 3·9125	— ·031	·0000	6·00	16	40 9 56·42	+ 13·380	+ ·42	— ·107	...
A	...	...	...	·398	...	...	...	...	...	·79	...	...	...	...
352*a*	8·2	6·07	10	20 52 40·358	+ 3·6833	— ·022	...	6·04	11	32 4 16·79	+ 13·714	+ ·38	...	sp
353	5·0	6·00	15	20 55 27·943	+ 3·6894	— ·023	—·0017	5·99	16	32 37 45·85	+ 13·892	+ ·38	·000	...
A	...	...	...	·925	...	...	...	...	...	·78	...	...	...	...
354	8·5	5·76	12	20 58 12·313	+ 3·7690	— ·027	...	5·76	12	36 10 32·99	+ 14·063	+ ·38	..	F
354*a*	7·0	5·76	12	21 0 30·086	+ 3·7330	— ·026	...	5·76	12	35 0 29·77	+ 14·206	+ ·38	...	...
355	7·6	5·76	9	21 2 42·059	+ 3·7923	— ·029	...	5·76	9	37 37 34·00	+ 14·341	+ ·39	...	nf
356	8·5	5·76	12	21 6 4·273	+ 3·8056	— ·030	...	5·76	12	38 33 44·46	+ 14·545	+ ·38	...	...
357	6·5	5·76	12	21 9 8·448	+ 3·8578	— ·033	...	5·76	12	40 53 59·21	+ 14·728	+ ·37	...	...
358	5·0	5·99	16	21 12 10·786	+ 3·6432	— ·024	+ ·0029	5·99	16	32 34 11·23	+ 14·908	+ ·35	— ·030	...
A	...	...	...	·771	...	...	...	...	...	·20	...	...	...	...

PERTH CATALOGUE, 1905·0.

No.	Mag.	Mean Date. 1900+	No. of Obs.	Mean R.A. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Mean Date. 1900+	No. of Obs.	Mean Declination. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Remarks.
				h. m. s.	s.	s.	s.			° ′ ″	″	″	″	
359	5·0	5·84	14	21 14 41·187	+ 3·8454	— ·034	+ ·0065	5·83	15	41 12 40·85	+ 15·053	+ ·36	+ ·010	...
A	...	...	...	·242	...	...	...	...	...	·55	...	..	...	...
359a	8·0	5·76	12	21 17 22·883	+ 3·6002	— ·023	...	5·76	12	31 13 13·21	+ 15·208	+ ·33	...	...
360	8·5	5·76	12	21 19 44·561	+ 3·7847	— ·032	...	5·76	12	39 37 19·86	+ 15·341	+ ·35	...	sf
361	6·5	5·76	12	21 23 23·315	+ 3·5927	— ·023	...	5·76	12	31 39 9·92	+ 15·545	+ ·32	...	...
362	9·0	5·76	11	21 26 15·372	+ 3·6265	— ·025	...	5·76	11	33 41 47·93	+ 15·702	+ ·33	...	...
363	6·5	5.76	11	21 29 28·895	+ 3·6386	— ·026	...	5·76	11	34 44 59·14	+ 15·876	+ ·32	...	...
364	8·6	5·76	11	21 32 15·070	+ 3·6371	— ·027	...	5·76	10	35 6 20·27	+ 16 022	+ ·31	...	...
365	7·0	5·76	10	21 35 33·620	+ 3·6451	— ·028	...	5·76	10	36 0 59·12	+ 16·195	+ ·30	...	...
366	5·0	5·92	13	21 39 17·445	+ 3·5814	— ·026	+ ·0013	5·91	14	33 27 34·22	+ 16·385	+ ·29	— ·094	...
A	...	...	...	·404	...	...	...	...	...	·02	...	...	...	...
367	7·0	5·77	8	21 41 47·186	+ 3·6731	— ·031	...	5·77	10	38 23 27·73	+ 16·510	+ ·30	...	...
368	8·0	5·78	10	21 44 15·838	+ 3·6778	— ·032	...	5·78	10	39 3 10·05	+ 16·632	+ ·30	...	...
369	3·0	5·80	12	21 48 10·762	+ 3·6366	— ·031	+ ·0071	5·80	12	37 48 43·43	+ 16 821	+ ·28	— 023	...
A	...	...	...	·713	...	...	...	...	...	42·88	...	...	...	...
370	8·0	5·78	10	21 52 25·465	+ 3·6780	— ·034	...	5·78	10	40 36 45·57	+ 17·019	+ ·28	...	...
370a	7·0	5·78	10	21 55 18·761	+ 3·5940	— ·030	...	5·78	10	37 0 40·28	+ 17·152	+ ·26	...	...
371	6·8	5·80	9	21 57 0·802	+ 3·5093	— ·025	...	5·80	10	32 35 31·91	+ 17·228	+ ·26	...	...
372	5–4	6·00	15	22 0 23·479	+ 3·6316	— ·034	— ·0030	6·00	15	40 0 6·45	+ 17·377	+ ·26	— ·114	...
A	...	...	...	·530	...	...	...	...	...	7·07	...	...	...	...
373	5–4	6·04	9	22 2 50·576	+ 3·5044	— ·026	+ ·0036	6·04	9	33 27 8·44	+ 17·484	+ ·24	— ·046	...
A	...	...	...	·532	...	...	...	...	...	·21	...	...	...	...
374	6·8	6·22	10	22 6 4·886	+ 3·5176	— ·027	...	6·22	10	34 55 57·53	+ 17·620	+ ·24	...	...
375	8·6	6·11	10	22 9 12·301	+ 3·4481	— ·023	...	6·11	10	31 9 15·77	+ 17·749	+ ·23	...	...
376	8·3	6·22	10	22 12 46·738	+ 3·4952	— ·027	...	6·22	9	35 2 31·65	+ 17·892	+ ·22	...	...
377	8·0	6·20	10	22 16 4·062	+ 3·5044	— ·028	...	6·20	11	36 24 53·88	+ 18·020	+ ·21	...	sF
378	8·3	5·91	10	22 19 6·466	+ 3·5287	— ·032	...	5·93	9	38 41 30·40	+ 18·134	+ ·22	...	...
379	6–5	6·12	13	22 23 5·242	+ 3·5264	— ·032	+ ·0019	6·13	13	39 36 45·59	+ 18·280	+ ·20	— ·166	sf
A	...	...	...	·243	...	...	...	...	...	·45	...	...	...	...
380	8·0	6·09	11	22 26 7·030	+ 3·5266	— ·033	...	6·09	11	40 27 57·70	+ 18·387	+ ·20	...	...
381	8·8	6·16	12	22 29 13·142	+ 3·4743	— ·030	...	6·16	12	37 55 36·27	+ 18·494	+ ·19	...	...
382	6·0	6·16	12	22 33 29·549	+ 3·3994	— ·025	+ ·0000	6 13	13	33 34 32·88	+ 18·635	+ ·18	+ ·050	...
A	...	...	...	·541	...	...	...	...	...	·51	...	...	...	...
383	8·5	6·03	10	22 37 7·133	+ 3·3583	— ·022	...	6·03	10	31 8 49·90	+ 18·749	+ ·17	...	nf of 3
384	8·3	6·13	10	22 40 14·797	+ 3·3641	— ·023	...	6·16	9	32 36 20·56	+ 18·845	+ ·16	...	...
384a	8·5	6·05	9	22 42 41·848	+ 3·4213	— ·029	...	6·05	9	38 15 28·61	+ 18·917	+ ·16	...	...
385	6·0	6·13	13	22 45 37·841	+ 3·4258	— ·031	·0000	6·08	12	39 39 35·61	+ 19·000	+ ·15	— ·002	...
A	...	...	...	·849	...	...	...	...	...	·86	...	...	...	...
386	9·0	6·13	10	22 49 17·289	+ 3·3575	— ·025	...	6·13	10	35 4 12·41	+ 19·099	+ ·15	...	...
387	8·3	6·13	10	22 52 17·750	+ 3·3391	— ·024	...	6·13	10	34 25 25·21	+ 19·178	+ ·13	...	sF
388	8·0	6·10	11	22 55 42·664	+ 3·3602	— ·028	...	6·10	11	37 52 9·67	+ 19·262	+ ·13	...	...
389	7·5	6·23	10	22 59 44·673	+ 3·3286	— ·027	+ ·560	6·23	10	36 24 0·20	+ 19·357	+ ·12	+ 1·26	...
390	9·0	6·20	8	23 3 22·522	+ 3·3312	— ·028	...	6·27	9	38 20 58·29	+ 19·437	+ ·11	...	sf
390a	8·8	6·16	9	23 5 22·450	+ 3·3127	— ·027	...	6·16	9	37 16 45·56	+ 19·479	+ ·11	...	...
391	9·0	6·24	10	23 7 33·790	+ 3·3269	— ·029	...	6·24	10	40 0 16·06	+ 19·524	+ ·11	...	...
392	8·3	6·17	9	23 10 50·644	+ 3·3093	— ·029	...	6·17	9	39 47 11·93	+ 19·587	+ ·10	...	...
393	4–5	6·16	12	23 13 41·749	+ 3·2470	— 022	+ ·0006	6·16	12	33 2 58·39	+ 19·638	+ ·09	— ·073	...
A	...	...	...	·751	...	...	...	...	...	·79	...	...	...	...
393a	8·0	5·94	8	23 16 13·435	+ 3·2256	— ·019	...	5·94	8	31 5 58·32	+ 19·681	+ ·09	...	...
394	8·5	5·94	10	23 17 58·258	+ 3·2196	— ·019	...	5·94	10	31 7 10·13	+ 19·710	+ ·08	...	...

PERTH CATALOGUE, 1905·0.

No.	Mag.	Mean Date. 1900+	No. of Obs.	Mean R.A. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Mean Date. 1900+	No. of Obs.	Mean Declination. 1905·0.	Annual Precession. 1905·0.	Secular Variation. 1905·0.	Annual Proper Motion.	Remarks.
				h. m. s.	s.	s.	s.			° ′ ″	″	″	″	
395	8·5	5·94	10	23 20 45·824	+ 3·2178	— ·020	...	5·94	10	32 32 45·63	+ 19·753	+ ·08	...	...
395a	6·5	6·05	9	23 22 54·811	+ 3·2293	— ·024	...	6·05	9	36 4 3·05	+ 19·784	+ ·07	...	...
396	9·0	6·03	10	23 25 10·349	+ 3·2188	— ·024	...	6·03	10	35 51 39·48	+ 19·815	+ ·07	...	...
397	5·0	6·07	13	23 27 52·685	+ 3·2202	— ·026	+ ·0061	6·07	13	38 20 37·04	+ 19·850	+ ·06	+ ·009	...
A	...	...	...	·721	...	...	...	...	...	·41	...	...	...	...
398	8·2	5·84	10	23 31 54·176	+ 3·1864	— ·022	...	5·84	10	34 52 31·66	+ 19·896	+ ·05	...	nf
399	5–6	5·88	12	23 35 39·078	+ 3·1632	— ·020	— ·0138	5·93	11	32 35 54·18	+ 19·933	+ ·04	— ·039	...
A	...	...	...	·003	...	...	...	...	...	·63	...	...	...	...
400	9·0	5·94	10	23 39 8·366	+ 3·1633	— ·023	...	5·94	10	36 46 28·29	+ 19·963	+ ·04	...	...
401	9·0	5·85	10	23 42 55·535	+ 3·1493	— ·023	...	5·85	11	37 38 52·42	+ 19·990	+ ·03	...	...
402	9·0	5·85	10	23 45 52·263	+ 3·1415	— ·025	...	5·85	13	39 56 3·89	+ 20·008	+ ·02	...	...
403	6·0	5·85	12	23 49 39·767	+ 3·1246	— ·025	...	5·85	12	40 49 46·29	+ 20·026	+ ·01	...	...
404	7·0	5·85	13	23 53 4·818	+ 3·1058	— ·023	...	5·85	13	39 29 0·65	+ 20·037	·00	...	...
405	7·0	5·85	13	23 57 3·125	+ 3·0859	— ·021	...	5·85	13	37 45 28·35	+ 20·044	·00	...	...
406	8·5	5·85	12	23 59 22·732	+ 3·0750	— ·019	...	5·85	13	34 56 35·37	+ 20·046	— ·01	...	...

By Authority: Fred. Wm. Simpson, Government Printer, Perth.

UNIVERSITY OF CALIFORNIA LIBRARY
BERKELEY

Return to desk from which borrowed.
This book is DUE on the last date stamped below.

FEB 2 1953

ASTRONOMY LIBRARY

LD 21–100m-7,'52(A2528s16)476